

#10

1631

RAW SEQUENCE LISTING
 PATENT APPLICATION US/09/417,522A DATE 08/15/2009
 TIME 16:05:18

Input Set : A:\8535-027.txt
 Output Set: N:\CRF3\08152000\1417522A.raw

4 <110> APPLICANT: Nehls, Michael
 5 Cardio-ICC, Brian
 6 Sands, Arthur T.
 8 <120> TITLE OF INVENTION: NOVEL HUMAN POLYNUCLEOTIDES AND THE
 9 POLYPEPTIDES ENCODED THEREBY
 12 <110> FILE REFERENCE: 8535-092-999
 11 <140> CURRENT APPLICATION NUMBER: US 09/117,522A
 15 <141> CURRENT FILING DATE: 1999-10-13
 17 <150> PRIOR APPLICATION NUMBER: US 66/104,292
 18 <181> PRIOR FILING DATE: 1998-10-11
 20 <160> NUMBER OF SEQ ID NOS: 503
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 40
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Artificial Sequence
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Synthetic sequence
 32 <100> SEQUENCE: 1
 33 tagctagacc ccaagatagg cctcgtctggc ctttttttt 10
 35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 24
 37 <212> TYPE: DNA
 38 <213> ORGANISM: Artificial Sequence
 40 <220> FEATURE:
 41 <223> OTHER INFORMATION: Synthetic sequence
 43 <100> SEQUENCE: 2
 44 gccatgctc cgttaggtcc agag 24
 46 <210> SEQ ID NO: 3
 47 <211> LENGTH: 19
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Rattus norvegicus
 51 <100> SEQUENCE: 3
 52 tagctagacc ccaagatag 19
 53 <210> SEQ ID NO: 4
 55 <211> LENGTH: 19
 56 <212> TYPE: DNA
 57 <213> ORGANISM: Artificial Sequence
 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: Synthetic sequence
 62 <100> SEQUENCE: 4
 63 gtcccaagat gccatagac 19
 65 <210> SEQ ID NO: 5
 66 <211> LENGTH: 18
 67 <212> TYPE: DNA
 68 <213> ORGANISM: Artificial Sequence
 70 <220> FEATURE:

ENTERED

RAW SEQUENCE LISTING
 PATENT APPLICATION US/09/417,522A DATE: 08/15/2000
 TIME: 10:06:28
 Input Set : A:\8515-027.txt
 Output Set : N:\CRF3\08152000\1417522A.raw

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71 <23> OTHER INFORMATION: Synthetic sequence
74 <100> SEQUENCE: 5
75 ccaagatagg cctcgtcg 18
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 23
78 <212> TYPE: DNA
79 <213> ORGANISM: Bacteria Phage Lambda
81 <400> SEQUENCE: 6
92 tacagttttt ctctggaaga ttg 23
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 19
95 <212> TYPE: DNA
96 <213> ORGANISM: Bacteria Phage Lambda
99 <400> SEQUENCE: 7
99 gattagctcc caacttttg 19
102 <210> SEQ ID NO: 8
103 <211> LENGTH: 20
104 <212> TYPE: DNA
105 <213> ORGANISM: Mus musculus
107 <400> SEQUENCE: 8
108 tccaaagtct gcatctctac 20
110 <210> SEQ ID NO: 9
111 <211> LENGTH: 277
112 <212> TYPE: DNA
113 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 9
116 gtatttgct gatcagag acacaggga aatggagac aaatcagta acatcacgt 60
117 aaggaatttg aagcagaga tcaacttcc tccagacac aggaacgac aagaccerc 120
118 ttccacaaac caacattctt ccaactcttc caacttttt ctggaaccc tttaacttca 180
119 accgcgaact atgtgaact tcaatttct gtactcttc taagaagta gtgtttctt 240
120 cctctccac gagaagaaa ataaagcaa caactag 277
121 <210> SEQ ID NO: 10
122 <211> LENGTH: 431
123 <212> TYPE: DNA
124 <213> ORGANISM: Homo sapiens
125 <400> SEQUENCE: 10
126 gtctatgttc ctgcaaaag aaaaatctg caaacattg aagactcatg 60
127 acccaattta aaacataac tgaatacat acatgaactc aagaccatga ctatcagga 120
128 agatttaaca ctgggaact cttaacaaa caaacacagc aacagggaaa acaacaaca 180
129 caacaacacg aagaatgcaa aaagaactaa tgcattctct agtlaagcct ggaatgagcc 240
130 tccaagacct aacagatgt ctgaatttc aaggaatgg cctgtgact atcaataac 300
131 aataaagag ctataacac ttgtttgtg ttctgtatg gcatggtct tgaactatct 360
132 cctacttgta gtgcagaca aagaacagg agatgaatta ccatgttcta ggaatttgtg 420
133 tctcttcca attc 431
134 <210> SEQ ID NO: 11
135 <211> LENGTH: 107
136 <212> TYPE: DNA
137 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 11

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RAW SEQUENCE LISTING DATE: 08/15/2000
 PATENT APPLICATION US/09/417,522A TIME 10:06:28

Input Set = A:\8535-027.TXT
 Output Set = N:\CRF3\08152000\I417522A.raw

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113 attcaacacaa gttattaac aaagacaaag aaatccctac atccattaga cctacatcga 60
114 aaagtggaaa aaattatgcc aaccccac aaattatcct ataggaacca cctcaacaca 120
115 aaattctctaa ccaatttaaa aaacaaagga tcaacaatta ctctccatga aaacaaagga 180
116 ccaaaagatgc aaagataatt gacacaaagg gattcaatt cctgaatgac ctcatctcaa 240
117 aaattctcag aacccagata aacatcccaag agttctaca aaagatccct ccaagaaag 300
118 aaaggggaaa ggaagccaa ttccgtatc ctatccacct tccrtagaaa gaattaggaa 360
119 cctgtggaca taaaatcatg atgcacatc ttctgaaac gaaaaaa 407
141 <210> SEQ ID NO: 12
142 <211> LENGTH 200
143 <212> TYPE DNA
144 <213> ORGANISM: Homo sapiens
145 <400> SEQUENCE: 12
146 aaagagaact atgtgttita taadaaagg aaagagaacc aaagatgac atatcaat 60
147 accagatccc ctctccacc tatacctat ggaactcca aaacttcaa agacaaaga 120
148 taaggtcttc accaaaatg cccctcaat cttagactc ctatctcca tgactgtaag 180
149 gaataaatc ctctcttctc
150 <210> SEQ ID NO: 13
151 <211> LENGTH 128
152 <212> TYPE DNA
153 <213> ORGANISM: Homo sapiens
154 <400> SEQUENCE: 13
155 atgaagaaaa aaagagajia gaaacacgt gctagaaga ctacacctt gaattgctt 60
156 agagccatgc agttgtctc acrtgacat cagtctgtc ccttcaatja aaagaggggt 120
160 gatctctg
162 <210> SEQ ID NO: 14
163 <211> LENGTH 132
164 <212> TYPE DNA
165 <213> ORGANISM: Homo sapiens
166 <400> SEQUENCE: 14
167 ctgaagacaa agaacctctt aaatagtga gtaacatg aaaaaaaca gaccttaag 60
168 tgaatgctt ggagaaaac taccatgaag cttttgctc aaattctga taagcaaaa 120
169 ataaactctt gctacataaa gt
172 <210> SEQ ID NO: 15
173 <211> LENGTH 149
174 <212> TYPE DNA
175 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 15
177 acaacttaac tsgtttctt aaagctaac tattggaaa ctctgtgaa aacacatgt 60
178 aacagatgtg aacattcttc attatgaagc tgaatgaaa atactcatt ttataatga 120
179 gaaagtcaat aaaaacttt ccagcccaag
182 <210> SEQ ID NO: 16
183 <211> LENGTH 166
184 <212> TYPE DNA
185 <213> ORGANISM: Homo sapiens
186 <220> FEATURE
187 <221> NAME/KEY: misc_feature
188 <222> LOCATION: (1)..(166)
189 <223> OTHER INFORMATION: n = A,T,C or G
192 <400> SEQUENCE: 16

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RAW SEQUENCE LISTING
 PATENT APPLICATION US/09/417,522A DATE: 08/15/2000
 TIME: 16:06:28

Input Set : A:\8515-027.txt
 Output Set : N:\CRF3\08152000\I417522A.raw

```

W--> 191 gaagaagaa ctcnctcenn catgagaccg ctgtggggat ctggcactgt ggttcctgna 60
W--> 194 tgcgaacant ggtctgngcy tgcctgggen gacaataccc ctctcctgtt cncgggaaan 120
W--> 195 gcccnctta aaaaactga ngngttgaa aaacagtaa accctc 166
    <210> SEQ ID NO: 17
    <211> LENGTH: 113
    <212> TYPE: DNA
    <213> ORGANISM: Homo sapiens
    <220> FEATURE:
    <221> NAME/KEY: misc_feature
    <222> LOCATION: (1) ... (113)
    <223> OTHER INFORMATION: n = A,T,C or G
    <400> SEQUENCE: 17
W--> 208 accctgatna ngagaccagc tgaggcgaat tatgagtcga ctaaaattat ccaaaagatc 60
    attttaccgt aaagtatttg ctgaatgtac argaatgtt tagaaattaa att 113
    <210> SEQ ID NO: 18
    <211> LENGTH: 250
    <212> TYPE: DNA
    <213> ORGANISM: Homo sapiens
    <220> FEATURE:
    <221> NAME/KEY: misc_feature
    <222> LOCATION: (1) ... (250)
    <223> OTHER INFORMATION: n = A,T,C or G
    <400> SEQUENCE: 18
W--> 222 ctcttctctg agaattgaaa cacttgcagc ccttttgctt atgttatcac ctggaataaa 60
W--> 223 ctggatgtgt cttaattgaa ctgcctctct ttggggagcg catactcccg ccaggttcac 120
    acagaccaca tgacacatc atgcctccca tccaccttt tcatatttt atgcttgac 180
    ccttttcagt ttctggatg acatgggtga ggaaggagaa actcaggtta atgataaagt 240
    ctgacatc 250
    <210> SEQ ID NO: 19
    <211> LENGTH: 187
    <212> TYPE: DNA
    <213> ORGANISM: Homo sapiens
    <400> SEQUENCE: 19
    aaagacactg aatgattcca atctttcagt cctctctcga gccaaacatg gacctctcaa 60
    agttatagca actcctcttc cagcgccttg ataaacaaac cctcatgtgt ggaacacaa 120
    acagttagct attttctcc ctatcacacc caagaaagcc tctctctttt acctagctt 180
    tcttcccaag accttaagta caacccatt ttacacccat acaagccca ctgactcac 240
    tgaagaaana gaaactcaca gaagaccaca gatgaagac tctttaacc tgygtcttt 300
    tgaatttgt tttagcaga aaaccttat tttaacaa caattgtaca cagaatttgc 360
    caatttacag aacagatgaa taagac 287
    <210> SEQ ID NO: 20
    <211> LENGTH: 216
    <212> TYPE: DNA
    <213> ORGANISM: Homo sapiens
    <220> FEATURE:
    <221> NAME/KEY: misc_feature
    <222> LOCATION: (1) ... (216)
    <223> OTHER INFORMATION: n = A,T,C or G
    <400> SEQUENCE: 20

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/417,522A DATE: 08/15/2000
                           TIME: 10:06:38

Input Set : A:\8535-027.txt
Output Set : N:\CRF3\08152000\I417522A.raw

W--> 253 gctcaactgn tncaggagtg tctgtgcga tggacacrat tgtggaaacc ttcctccgca 60
254 cctatgcacg gctctctgna atgcaccaa caaacccctc taaacctctt aacgggaaga 120
W--> 255 tgtgaataac acgcaataat cacaacaaat cctctctatc ataaagcett gcggggagct 180
W--> 256 gcactgcgaa atattttaat aantattaaa acactg 216
258 <210> SEQ ID NO: 21
259 <211> LENGTH: 511
260 <212> TYPE: DNA
261 <213> ORGANISM: Homo sapiens
263 <210> FEATURE
261 <21> NAME/KEY: misc_feature
265 <22> LOCATION: (1)...(511)
266 <23> OTHER INFORMATION: n = A,T,C or G
268 <100> SEQUENCE: 21
W--> 269 ngtaatnag gngggangecc cctgggtgag gaactgacca gcagactcca gcagctgtgg 60
270 gaaacactca ctatgaacag aacaaagacc agactgctca aactgaagtc tataaahaa 120
271 cctaaagtaa cctggagatg agttatcccc aatcaaccca ccagtgattt ctgaacccaa 180
272 taatttgatc cttaggaagt tgtgctgtat ggaacaaaaa caccctctct agctgacatc 240
273 tgttttgctg gtaacacaaa tgcaacttat taatcatctc tgggtaaaca agaaatgtaa 300
274 tcttgaaagt accttacaag agaaactctt ggaatataag accttaaac taaaacacct 360
275 ctcgaatgta ctgaagaca tcccgaagca gtaacanaaa aactgctccc atgaaattct 420
W--> 276 tgcttatgtt taagtcttcc atagaaaaaa ataaaaatac naaacccnaa aaaaaaaagg 480
W--> 277 gcccgggggg ccaattcagn ttggaactaa ccaggctgaa ctngttaaaa aggggggggg 540
278 g
280 <210> SEQ ID NO: 22
281 <211> LENGTH: 192
282 <212> TYPE: DNA
283 <213> ORGANISM: Homo sapiens
285 <210> FEATURE
286 <21> NAME/KEY: misc_feature
287 <22> LOCATION: (1)...(192)
288 <23> OTHER INFORMATION: n = A,T,C or G
290 <100> SEQUENCE: 22
W--> 291 gacgtctggg gagctctctg nttaaatnaa acnnagagtt ttngtnncc cccagnaaan 60
W--> 292 nngatctggc caaacccnaa aanaaccan cctcaccag agatgcagnc tgacctgtgt 120
293 agctccacc aggcatacag gctttccag ctatcaaaa aaaaagcctt agttcacagc 180
W--> 294 gttatagctg gctcatggtc gctcacagac acctctggga tgrattcccg tgacttanaa 240
295 aagaaatnnc ctttgaacc tcccagtgct gctctgtgat tctgaagtat ctgaaacctc 300
296 aggcacccat gccctctcac accagcatgg tctctgcaa agacagctg cttctctacc 360
297 tgtctcatg atacaagctt ttcttccca aacttttag agacacactc tccctatcac 420
W--> 298 tctgtcttta attttgcct ttattgntcc ttanattaaa aaatctctc cttctatnng 480
299 agggattggc ct
301 <210> SEQ ID NO: 23
302 <211> LENGTH: 273
303 <212> TYPE: DNA
304 <213> ORGANISM: Homo sapiens
306 <100> SEQUENCE: 23
307 gctctangtc atacaagta ggaagttca atgtgttccc ttaggttcaa ttcctgtgtt 60
308 aaagctggtt gtagaggttg gaaagttcaa ttgaagcat tttctatc caagagtgac 120
309 ttgacagatg gacatatac ttggttaatt tctcagcatg tcaacagaa gcaattctac 180

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 08/15/2000

PATENT APPLICATION: US/09/417,522A

TIME: 16:06:29

Input Set: At\8545-027.txt

Output Set: N:\CRF3\08152000\1417522A.raw

L:193 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 16
 L:194 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 16
 L:195 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 16
 L:208 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 17
 L:222 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 18
 L:223 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 18
 L:233 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 20
 L:234 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 20
 L:235 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 20
 L:256 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 20
 L:269 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 21
 L:276 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 21
 L:277 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 21
 L:281 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 22
 L:292 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 22
 L:293 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 22
 L:298 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 22
 L:330 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 24
 L:331 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 24
 L:351 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 25
 L:381 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 28
 L:385 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 28
 L:386 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 28
 L:387 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 28
 L:388 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 28
 L:389 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 28
 L:390 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 28
 L:391 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 28
 L:409 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 29
 L:410 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 29
 L:425 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 30
 L:466 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 33
 L:486 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 34
 L:487 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 34
 L:534 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 36
 L:551 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 39
 L:566 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 40
 L:612 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 43
 L:613 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 43
 L:627 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 44
 L:628 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 44
 L:649 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 45
 L:649 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 45
 L:650 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 45
 L:651 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 45
 L:652 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 45
 L:653 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 45
 L:667 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 46
 L:669 M:311 W: (16) "n" or "Xaa" used, for SEQ ID# 46

VERIFICATION SUMMARY DATE: 08/15/2000
 PATENT APPLICATION: US/09/417,522A TIME: 10:06:29

Input Set: A:\8515-027.txt
 Output Set: N:\CRF3\08152000\1417522A.raw

Line 95 H141 N1 (1x) "n" or "\aa" used, for SEQ ID# 18
 Line 101 M111 N1 (1x) "n" or "\aa" used, for SEQ ID# 18